

Census RDC Research Proposal Guidelines

April 11, 2012

Persons wishing to conduct research at a Census Bureau Research Data Center (RDC) must submit a research proposal to the Center for Economic Studies (CES). The following guidelines describe the research proposal submission process.

Each RDC is a joint venture between the Census Bureau and a research institution. All RDCs charge project fees for cost recovery. Some institutions maintain affiliations with their local RDC that cover fees for their faculty, staff and/or students. Researchers will want to discuss the fees with the RDC Administrator and/or Executive Director for the RDC(s) they intend to use.

After you and your administrator have developed your proposal, the proposal will be submitted to the CES for Census review. Researchers on approved projects must also complete a background investigation, including fingerprinting. It can take a number of months to complete these steps before you might expect to begin work.

Census has also partnered with the Agency for Health Care Research (AHRQ) and National Center for Healthcare Statistics (NCHS) to host health data projects in the RDCs. Proposals to use AHRQ or NCHS data are submitted to these agencies (see Appendix A for web links).

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I. The Proposal Process

A. Preliminary Proposal Development

Researchers who wish to develop a proposal to conduct research at a Census Research Data Center (RDC) should first contact the RDC administrator at the primary center where the research will be conducted (see list of [RDC contacts](#)). The researcher should discuss the proposed project with the administrator to determine whether the research fits with the Bureau's mandate, is feasible, is likely to provide benefits to Census Bureau programs under Title 13 of the U.S. Code, is designed to produce model based statistical estimates, and that the research output will not pose undue risk of disclosing information about an individual survey respondent.

Once the RDC administrator and the researcher have agreed it is sensible to proceed, the researcher submits to the administrator a completed Attachment 1 Preliminary Proposal. The administrator will review the summary, advise the researcher of any suggestions for refinement, and forward the document to the Lead Administrator at CES and Project Review Coordinator in the Census Bureau's Research and Methodology Directorate.

CES encourages researchers to assess carefully the time period over which they request access. Requests for time extensions beyond the agreement end date undergo careful scrutiny, must be justified, and generally are granted for circumstances beyond the control of the researchers (e.g. unexpected illness). A typical proposal duration is 36 months. Requests for longer duration need to be justified.

The proposal should include the PI's names as well as all names of researchers, including RAs, that will apply for sworn status and use the data in the RDC. We can host foreign citizens in the RDCs if they live in the U.S. Researchers that wish to work in the RDC that do not reside in the U.S. should discuss their circumstances with the RDC administrator early on. Doctoral students submitting a proposal for dissertation work are asked to include their primary advisor as a co-principal investigator. CES recommends that the advisor also apply for Special Sworn Status (see below).

B. Final Proposal Submission

The final proposal consists of two separate documents in rtf (rich text) or doc/docx (MS-Word) format: project description and benefits statement. These documents are submitted to CES through your RDC administrator (e.g. email). It is expected that the proposal development process will include exchange of multiple iterations of the proposal, and in particular benefit statement (called the Predominant Purpose Statement, PPS) with your RDC administrator before the final proposal is ready to be submitted. Your administrator is a resource for assistance in clarifying a range of potential issues, including topics related to feasibility and Census benefits.

C. Proposal Content Guidelines

The two document files should conform to the following specifications.

1. Project Description

This document should describe the nature of the research question(s), description of the methodology (including model equations to be estimated, how model variables will be measured, and hypotheses to be tested), Census and non-Census datasets to be used, expected outcomes, and should contain a list of references cited. The proposal should be aimed at a competent social scientist who is not necessarily a specialist in the field or on the topic within the field. Though the benefits to Census are presented in a separate proposal document (discussed in the next section), you should integrate into the proposal as appropriate how your research benefits the Census Bureau. Please keep in mind that this is a proposal for secure access for statistical analysis using internal Census data; proposals written for other purposes (e.g., funding grants) will require adaptation. The proposal should:

- Contain a title and the names of all researchers at the top of the first page.
- Include appropriate headings and subheadings throughout the document to assist reviewers in following the proposal narrative.
- Not include any appendices unless approved in advance by the RDC administrator.
- Be limited to no more than fifteen (15) single-spaced pages or thirty (30) double-spaced pages (inclusive of references).
- Use a font size of at least 11 point and should have at least one-half inch margins all around. Twelve point font and one-inch margins are preferred.
- Include page numbers.
- Should be written in revisable form text: rtf, doc, or docx format.¹

The full proposal should contain the following sections; however, researchers are free to add additional sections as they see appropriate.

a) Introduction

This section should motivate interest in your project and provide an overall description of your research. A literature review is not necessary; some references are fine. Make a convincing statement about why you need non-public data and briefly describe what you will do with the data. The introduction should also state that the primary purpose of this research is to benefit the U.S. Census Bureau. It is also helpful, where appropriate, to connect the proposal research to activities and initiatives performed by the Census Bureau.

All research must have a statistical purpose. In particular, Title 13 statutes specifically prohibit the use of census micro-data for legal or regulatory purpose.² Please do not include analysis in

¹ Some data partners request revisable form documents in order to perform electronic comparison in case they receive multiple versions.

² Title 13, Chapter 1, Subchapter 1, section 9, Information as confidential. "Neither the Secretary, nor any other officer or employee of the Department of Commerce or bureau or agency thereof... may... use the information furnished under the provisions of this title for any purpose other than the statistical purposes for which it is supplied; or make any publication whereby the data furnished by any particular establishment or individual under this title can be identified... Copies of census reports which have been so retained shall be immune from legal process, and shall

your proposal that has or can be perceived to have a regulatory purpose. Proposals are also not expected to make specific policy recommendations.³

The proposal and PPS (benefits statement) together constitute the proposal submission.⁴

b) Methodology

This section describes your empirical specification, the statistical equations you will estimate, why the Census data is needed, how the data will be used, and how all datasets fit together.

The requested Census data needs to clearly map into the methodology section. Even though “Census Provided Data” is a separate section of the proposal (below), there should be a very clear connection between the methodology and the data. The purpose for each requested dataset and its role in the analysis should be clear. Many researchers overlook the “data crafting” aspect of the methodology. You need to be as detailed as possible in describing how measures will be constructed, and how the data will fit together. This doesn’t need to be a separate section or separate discussion per se, but it needs to be discussed where appropriate.

Describing the linking of datasets is important, and at what unit of observation or aggregation the linking will occur. For example, if one is linking the Annual Survey of Manufacturers (ASM), collected at the establishment level, to the R&D survey which is firm based, the research methodology should incorporate this. Also, linking survey data (e.g., the ASM and R&D are both surveys) to other survey data may lead to small sample size (and therefore potential disclosure) issues if the survey samples don’t significantly overlap. For demographic data, for example linking the SIPP to externally provided contextual variables, detailing the level of geography at which this link will be performed is helpful.

Generally speaking, economic (firm and establishment) data sets share a common set of identifiers and can be linked together. The identifiers for demographic (household and person) census and survey data sets are most of them designed to be used within the survey year and are not longitudinal, or linkable across demographic surveys. Record level linkage for economic data can be performed by approved projects in the RDC using the Business Register. Record level linkage for demographic data must be performed by internal Census staff.⁵ Note that linking cannot generate complete matches of an internal dataset to an external one; this would reveal existence of specific respondents in the Census data, which is a violation of Title 13 protections.⁶

not, without the consent of the individual or establishment concerned, be admitted as evidence or used for any purpose in any action, suit, or other judicial or administrative proceeding.”

³ In addition, for proposals using establishment and firm data, we recommend avoidance of the word “policy” altogether. For example substitute “decision maker” for “policy maker.”

⁴ A common former practice of duplicating PPS text in the proposal document is obsolete.

⁵ Circulation within Census of personally identifiable information (PII) such as name, address and SSN data is intentionally very limited, and excluded from the RDCs. Record level linkage is performed at Census by internal specialists within only a few departments. Approval for record level linkage to demographic surveys, especially mandatory surveys, can be very difficult to justify, as well as expensive to perform.

⁶ Furthermore, for business data with FTI, a complete match results in a violation of the IRS “fact-of-filing” information protection.

It is important to convey to the reviewers that you have read the documentation that is publicly available about the datasets you are requesting and have thought through some of the implications of the data in relation to your research approach. A list of restricted-use data commonly used by approved projects in the RDCs is included in the links given in Appendix A. Often, three sources of information about datasets are helpful: survey questionnaires, Census web pages detailing survey and sample design, and working papers that prior CES and RDC researchers have written using the data. See Appendix B. Also, ask your RDC administrator to provide additional information or answer questions.

The unit(s) of observation for the analysis and the groups of units for which you will carry out analysis are both important. For each, be as specific as possible. Do you foresee the unit of observation being the establishment, firm, household, or person? Or will your unit of observation be at a more aggregated level (e.g., Census tract or county)? Will you use some combination of units? Additionally, for what groups of units (what "level(s)") will you specify your models. Will you estimate models at (say) national or sub-national levels; if so, what levels? In addition, will you run separate models by gender, race, household structure, industry, etc.? Information that describes the units of analysis and the groups of units/levels of samples you will be using for your analysis helps Census reviewers assess both the feasibility of your project and the risk of disclosing confidential information. For more on the latter, see section (d) following, and II.A below.

Write out the equations you plan to estimate. You do not need to give the exact functional form you plan to use, but write out in as much detail as possible the general equation and relevant variables, and talk about how the data will fit into the equation. You do not need to list every specification, nor every variable you will be using from each dataset, but discuss how the left and right hand sides of each equation will be measured, and if they are dichotomous, categorical, continuous, etc. Specify the dataset(s) from which these measures will come and how they will be constructed.

c) Data Sources

Data sources should be divided into two sections: "Census Provided Data" and "Researcher Provided Data."

In the "Census Provided Data" section, provide a bulleted or numbered list (or summary table) outlining the exact data you are requesting. Please consult the online tables in the links in Appendix A to see the data available through the RDCs and the years available for each dataset. If a dataset is listed as a separate entity in the table, it needs to be listed separately in your proposal. As examples, "LEHD Data" is insufficient information, instead list the requested datasets individually (e.g., EHF, ICF, etc.); the "Economic Census" includes eight datasets, list individually those requested; for the Longitudinal Research Database (LRD) please instead list the ASM, CMF and LBD.

The years of data needed for each requested dataset must also be stated. If you are requesting years of data not yet released, detail these with an "if available" caveat (e.g. CMF 2002, 2007, and if available 2012). The years of requested data need to be clearly justified, particularly for

proposals requesting a long time series. You can either do this in the methodology section or in a paragraph at the end of the data section. A brief summary of this justification is also inserted in section B of the benefits statement (discussed below) for datasets that include Federal Tax Information (FTI).

It is straightforward for the Census Bureau for an approved project to provide the standard RDC datasets that are listed in the links in Appendix A for the years shown. Data collected by the Census Bureau that is not listed is generally unavailable, not prepared for RDC use, or procedurally problematic in some way. If a need for non-standard data exists, it is crucially important to discuss this with your RDC administrator, and important to incorporate this into your timing plans as requests for non-standard datasets considerably lengthen proposal evaluation.

If you plan to bring in non-RDC data to the project, list these datasets in a separate section called “Researcher Provided Data.” The source for your external data should be indicated. Note: public use Census data are considered external data (sourced from public web sites).

After the list of data, it is often useful to include a paragraph summarizing how all the data fit together, and how they will be linked and their expected overlap (if applicable), if not already covered in the methodology section.

d) Project Output and Disclosure Risk Section

In this section, you must describe the output you expect to ask to remove from the RDC. This description is important in assessing both the substance of the proposal and the risk of disclosing confidential information. Output from the Census RDCs must emphasize modeling output (regression coefficients, standard errors, and the like). Summary statistics (variable means, etc.) are allowed, but only to the extent that they support modeling output. For example, the kinds of output expected to be released are regressions and tables as found in an article in a peer-reviewed academic journal. You should make the point that your project will emphasize modeling output. Researchers who desire disclosure of large volumes of tabular output should request a special tabulation from the Census Bureau⁷ rather than requesting access to micro data at the RDC.

Be clear in describing the unit(s) of analysis you will use and the groups of units (“levels”) for which you will create research results. Are you only using certain industries or demographic groups? Your work will be cleared for release only if it passes certain disclosure criteria, including minimum sample size restrictions. For example, for a regression, the underlying sample must be large enough, as well as those subsamples as defined by indicator variables.⁸

Note that including dummy variables in your analysis creates additional “cuts” at the sample (i.e., cross tabs), but only if you report the estimated coefficients associated with the dummy

⁷ Demographic tabulations: <http://www.census.gov/population/www/cen2000/sptabs/main.html>
Economic tabulations: http://www.census.gov/econ/susb/special_tabulations.html

⁸ If you are using LEHD data, output must have been estimated using a sample that includes at least five states. The following language for LEHD proposals should be used: “We understand disclosed results using LEHD data must have been generated using multiple states.”

variables. Because of this potential issue, we encourage including statements in your proposal, as appropriate, for example: “Specifications will include detailed industry controls; however we will not release these fixed effect coefficients, as all we need is to note in our results tables that we included them.”

Disclosure risk is a complex topic, and you will need to discuss your proposed output with your RDC administrator as you develop your proposal. See below Section II.A "Confidentiality protection and disclosure avoidance review requirements" for more specifics on what we look for in assessing proposals for disclosure risk.

e) Project Duration and Funding Source

This section should state the proposed duration of the project and expected intensity of use (e.g. 15 hours per week). List sources of funding for the RDC lab fees, as well as funding for the research project overall.

Researchers often discover that it takes longer than anticipated to become familiar with the data and computing environment. For most projects, duration of at least 24 or 36 months is recommended. Sixty months is the maximum length of a project, however requests for long duration projects will need to be justified, and include a proposed timeline and work schedule with key milestones. All projects are required to submit a yearly progress report/interim benefits statement.

2. Benefits Statement

Proposals must demonstrate that the research is likely to provide one or more Title 13 benefits to the Census Bureau. A research project must demonstrate that its predominant purpose is to benefit Census Bureau programs. If a project has as its predominant purpose one, or any combination, of the following criteria, then it will be considered to have as its predominant purpose increasing the utility of Title 13, Chapter 5 data. Researchers should consult an RDC administrator for more information. Any proposals seeking to use datasets that contain Federal Tax Information (FTI), generally speaking the establishment and firm based surveys and census, must also be reviewed by the Internal Revenue Service to ensure that the predominant purpose of the research is to contribute to Census Bureau programs under Title 13, Chapter 5 of the U.S. Code. The following are a list of approved Title 13 benefits.

The first four criteria apply only to projects that do not include FTI. Generally, this means projects requesting only demographic data (data for persons and/or households).

1. Evaluating concepts and practices underlying Census Bureau statistical data collection and dissemination practices, including consideration of continued relevance and appropriateness of past Census Bureau procedures to changing economic and social circumstances;
2. Analyzing demographic and social or economic processes that affect Census Bureau programs, especially those that evaluate or hold promise of improving the quality of products issued by the Census Bureau;

3. Developing means of increasing the utility of Census Bureau data for analyzing public programs, public policy, and/or demographic, economic, or social conditions; and
4. Conducting or facilitating census and survey data collection, processing or dissemination, including through activities such as administrative support, information technology support, program oversight, or auditing under appropriate legal authority.

The remaining nine criteria apply to all projects.

5. Understanding and/or improving the quality of data produced through a Title 13, Chapter 5 survey, census, or estimate;
6. Leading to new or improved methodology to collect, measure, or tabulate a Title 13, Chapter 5 survey, census, or estimate;
7. Enhancing the data collected in a Title 13, Chapter 5 survey or census. For example: improving imputations for non-response; developing links across time or entities for data gathered in censuses and surveys authorized by Title 13, Chapter 5;
8. Identifying the limitations of, or improving, the underlying Business Register, Master Address File, and industrial and geographical classification schemes used to collect the data;
9. Identifying shortcomings of current data, collection programs and/or documenting new data collection needs;
10. Constructing, verifying, or improving the sampling frame for a census or survey authorized under Title 13, Chapter 5;
11. Preparing estimates of population and characteristics of population as authorized under Title 13, Chapter 5;
12. Developing a methodology for estimating non-response to a census or survey authorized under Title 13, Chapter 5;
13. Developing statistical weights for a survey authorized under Title 13, Chapter 5.

The PPS should address clearly and specifically how the project will provide one or more of the Title 13 benefits listed above. It has no length limitation, however clear and concise presentation is critical. Most commonly, researchers have written the benefits to address two criteria, Criterion 11 and one other.

Most RDC proposals include as a benefit preparing estimates of population and characteristics of population as authorized under Title 13, Chapter 5 (criterion 11). This is because, if one thinks of Census survey life cycle, loosely speaking, as a series of four steps: planning, conduct, processing, and dissemination, then your research estimates are a key form of information dissemination. RDC based research leverages unique skills of experts in a joint venture to generate new estimates of the population of individuals and firms to complement the variety of Census produced publications, and further informs Census analysts of if and how the data can support meaningful understanding of the underlying processes of our economy. In writing benefits for criterion 11, include all of the analyses you plan to perform in summary form.⁹

⁹ For some federal agencies, including the IRS, this is the document and project scope they review and approve.

Your access to the internal microdata is covered under legal statute because of your role as a consultant to assist Census with its work.¹⁰ From a practical perspective, the implementation of this has included a norm for RDC proposals to meet at least two of the criteria listed above. Thus, a second benefit is proposed, most commonly an exercise connected to survey planning and processing activities at Census, for example an analysis about the data itself. The ideal benefit analysis leverages the same data preparation work as is intended for the estimates of population.

A good Census benefit accomplishes three elements: (i) a connection to Census program activity, (ii) articulates a specific analysis exercise, its purpose and approach, that can be clearly understood by reviewers and Census staff, and (iii) is focused, generally on only one of the above criteria. Discuss what might be found, why it could be informative, and, in particular, some specifics on how the analysis will be approached.

Related to (i) above, a benefit analysis that can be shown to have a relationship to activities Census is working on or potentially thinking about strengthens its relevance. Census program staff describe much about their activities on the census web pages, easily accessible through searches.¹¹ Note that contributions that benefit other researchers, including Census researchers, are welcome (e.g., documentation contributions, or methods contributions that are of potential interest to academic researchers); however, these might not necessarily have application to Census activities.

The PPS document is formatted in a specific way. See Attachment 2 for the standard template. Enter text under each relevant criterion for the benefits, and erase the criteria headings not needed. Note that it is important not to change the format of the document, nor edit the paragraphs that are pre-printed there. Your RDC administrator will assist you with the formatting and content of the PPS.

Census Benefit Example 1

An example of a Census benefit is to benchmark Census collected data to that of an outside source, to understand the quality of data produced through a Title 13, Chapter 5 survey. By linking Census establishment micro data to external sources of merger and acquisition activity as reported by firms to other federal agencies, projects have investigated the extent to which known acquisition events as identified in the external data are reflected in the Census business register. The terms of an acquisition can vary considerably, and these differences may be related to differences in reporting behavior. Cases of mismatch were explored and documented in a technical memorandum to Census Bureau staff, focusing specifically on the ability of the register to capture ownership dynamics.

If your project includes FTI datasets, section B is filled out as follows: (i) enter each FTI dataset and the years, (ii) enter the FTI variables included in the FTI datasets (these are a standardized set for each data file – your administrator will help you with this), and (iii) if your project asks for a long time series, include a paragraph at the beginning of section B justifying the request.

¹⁰ Title 13, Chapter 1, Subchapter II, Section 23 states “The Secretary may utilize temporary staff, including employees of Federal, State, or local agencies or instrumentalities, and employees of private organizations to assist the Bureau in performing the work authorized by this title, but only if such temporary staff is sworn to observe the limitations imposed by section 9 [Information as confidential] of this title.”

¹¹ Proposals requesting LEHD data are expected to include benefit to the LEHD program.

An example for the Census of Manufactures is as follows:

Census of Manufactures (CMF), 2002, 2007 and if available 2012

FTI:	Description:
ST	State
IND	Industrial Classification (SIC/NAICS)
LFO	Legal Form of Organization
CFN	Census File Number (includes EIN)
EIN	Employer Identification Number
COU	County
SW	Salaries and Wages (IRS Payroll)
TE	Total Employment
TVS	Shipments (IRS Receipts)

The benefits document/PPS should not be repeated in the proposal, the two documents together constitute the proposal. In addition, the PPS should be in executive summary form: no equations, no footnotes, no references/bibliography. Finally, the PPS must be written in the third-person.

Appendix B includes some helpful links to source documents that can provide input to drafting benefit statements. It is important to discuss proposed benefits to Census with your administrator.

Census Benefit Example 2

An example of a Census benefit centers on the transition of the Decennial Census long form to the American Community Survey (ACS). This change provides advantages, such as ongoing updated information more frequently than once every ten years, however also provides some issues that may require adjustment to population estimates. Projects have investigated the effect of changes in question design, comparing data from the same question in cases of different wording, and seasonality issues due to the change from data collected in April of the decennial year to ACS continuously collected data for variables such as journey time to work and the commuting transportation mode.

II. Census Review

A. Proposal Review Process

The Center for Economic Studies accepts proposals for review at any time during the year. Both Census Bureau and external experts on subject matter, datasets and disclosure risk review all proposals. Relevant data sponsors and data custodians also review proposals that request certain datasets, for example other federal and state agencies. See the sponsor column in the data tables in the links in Appendix A.¹²

Research proposals submitted to CES are reviewed based on five major criteria.

¹² LEHD data are sponsored by the 50 states. Some will require state review of proposals that request use of their data.

Benefit to Census Bureau programs under Title 13

While each of the criteria is important in determining whether to approve a proposal, the project's potential to benefit Census Bureau programs carries the greatest weight.

Scientific merit

This criterion relates to the project's likelihood of contributing to existing knowledge. When available, evidence that a Federal-funding agency such as NSF or NIH has approved the proposed research constitutes one indication of scientific merit.

Clear need for non-public data

The proposal should demonstrate the need for and importance of non-public data. The proposal should explain why publicly available data sources are not sufficient to meet the proposal's objectives.

Feasibility

Feasibility criteria include data availability and statute consistency. Internal Census reviewers will be focused on the ability of the data to support the proposed research, and will be interested in the proposal's discussions of measures and how the researchers plan to combine the data. The proposal must show that the research can be conducted successfully given the methodology and requested data. Here, researchers need to convince reviewers that they sufficiently understand the data they are requesting (unit of measurement, available measures, etc.), that their research questions can be answered in a disclosure-compliant way, that they have thought through and anticipated potential sample size, level of aggregation or other feasibility issues, and that the number of datasets requested is reasonable and well justified.

Confidentiality protection and disclosure avoidance review requirements

Output from all research projects must undergo and pass disclosure review.

- The Census Bureau is required by law to protect the confidentiality of data collected under its authorizing legislation, Title 13, U.S. Code.
- Tabular and graphical output presents a higher risk of disclosure of confidential information than do coefficients from statistical models.
- Some data files are collected under the sponsorship of other agencies. In providing restricted access to these data, CES must adhere to all applicable laws and regulations.
- Researchers may be required to sign non-disclosure documents of survey sponsors or other agencies that provide data for their research projects.

We look for several things in evaluating proposals for disclosure risk. To do this, the proposed methodology and output must be clearly stated in the proposal, especially the information requested above in Sections I.C.1.b and I.C.1.d. We realize that, because you are conducting research, you probably don't know all the details in advance. Nevertheless, we need enough

detail to assess whether the proposed project can succeed without posing undue risk. In particular:

- We need to determine whether there may be possible thin "cells" in your output, where for this purpose, a "cell" is the group of observations (individuals or businesses) underlying any result you may release. To evaluate this, we need clear and accurate information on the types of output to be requested (e.g., models tabulations, graphs) and the units of analysis underlying the output (e.g., individuals and businesses, or groups of these); and the groups (levels) for which you will request output (e.g, industry, gender, geography, and possible crosses of these). For example, detailed industry-by-geography cells become thin very rapidly.
- We need to know whether variables included in models are discrete or continuous; both are allowable, but discrete variables (especially dummy (0,1) variables) define "cells" that we must take into account.
- We need to know whether you will request graphs or maps, which can be especially problematic.
- We will also look for types of output that are relatively unfamiliar to us, such as from new statistical techniques. We must try to assess their disclosure risk, and we welcome any insights you may have on this.

Reviewed proposals receive one of two ratings:

- **Approved.** The proposal successfully addresses all of the review criteria mentioned above.
- **Not Approved.** The proposal fails to meet most or all review criteria. Subject to approval of the RDC administrator, not-approved proposals may be resubmitted as a new proposal, after addressing reviewers' concerns in a substantial revision.

The Project Review Coordinator (PRC) communicates the outcome of the review process to the researcher, which includes a review synopsis, an explanation for the decision, and copies of the expert reviews.

B. Post Census Approval

Following Census approval, the PRC will coordinate reviews from data sponsors and other federal agencies (including the IRS) as needed. Approval of research proposals by CES (and the IRS if FTI is requested) is but one step in the process before research can commence. In many instances, CES must obtain permissions to access certain data. This process can range from a few weeks to many months depending upon the data requested.

Once a project has all necessary approvals, all researchers who expect to access RDC data must undergo a background investigation, including fingerprinting. After completion of the background check, the Census Bureau grants Special Sworn Status (SSS) to each researcher, which subjects them to incarceration of up to five years and/or fines of up to \$250,000 if they knowingly or inadvertently disclose confidential information on individuals, households or businesses. All SSS individuals must take annual training in the use and protection of Title 13 data, Title 26 data, and information security.

All approved research projects are governed by a written agreement between the researcher(s) and the Census Bureau. The agreement stipulates the start and end dates for the project, and responsibilities of both parties with respect to procedures and practices. Each researcher on the project must sign an agreement with the Census Bureau. If researchers are added to the project after the project starts, these researchers will also each sign an agreement. Separately, an agreement with the RDC partner institution may be required, as well as arrangements for RDC fee payments.

Timing

The review process is both lengthy and rigorous, requiring researchers to exhibit patience throughout. We continually strive to simplify and compress proposal review times, and are committed to process improvement for proposal review. However, experience has demonstrated that due to the number of steps, participants and data permissions involved, elapse time between the final proposal submission and the actual commencement of research generally includes multiple months. This duration also varies substantially by individual proposal depending on the scope and complexity of the proposal, the number and variety of datasets, and other agencies involved.

Researchers can help speed up the process by:

- Adhering closely to all practices and procedures for proposal submission.
- Rationalizing and simplifying the scope and data requested in the proposal where appropriate.
- Working closely with their RDC administrator on proposal development and on any requested revisions or clarifications to proposals or predominant purpose statements.
- Providing CES with the terms of use for any proprietary external datasets.
- Processing their SSS paperwork quickly.

We are proud of the many research projects conducted over the last three decades throughout the RDC network, and are grateful for your interest.

Attachment 1: Preliminary Proposal Template

Title:

Principal Investigator:

Date:

Prerequisites Checklist

1. I have read these research proposal guidelines.
2. I have corresponded with an RDC administrator about my prospective project.
3. I understand that the predominant purpose of this project must benefit the Census Bureau data programs.
4. I understand that there are usually lab fees for using an RDC.
5. I understand that work is performed in a restricted access environment and only cleared results are allowed to leave the RDC.
6. I understand that the approval process may take a considerable amount of time, for example, if review by other agencies or data owners is required or if data availability issues exist.

I have performed each checklist item above: Please initial _____

Duration:

Funding Source:

Description:

JEL Code(s):

Census Datasets:

Years of Data:

Primary RDC Location:

Secondary RDC Locations:

Benefits:

Research Team

Name	Affiliation	Email/Phone	Type	SSS	US

Instructions for Preliminary Proposal

These instructions provide some context for entering the information about your project in the Preliminary Proposal form. Note that it is not necessary to have all information exact to fill out this form, as the information can be updated any time up until the proposal is submitted for Census review. It is expected that you will update the information as you go along as part of the proposal development activity. The final version of this form will be submitted along with your proposal.

Title: The title of your proposal.

Principal Investigator: Researcher that will submit the proposal for Census review, and will be the central focal point of communication with Census on proposal and project affairs.

Date: Today's date

Please perform each checklist item and type your initials to indicate agreement.

Duration (months): Number of months of access to the data in the RDC starting from the first day of logon (after project approval) to RDC project completion.

Funding Source: List sources of funding for the RDC lab fees, as well as funding for the research project overall.

Description: The description is intended to give Census staff a short idea of what your research project is about and the potential Census benefits.

JEL Code(s): Enter appropriate JEL subject codes from the JEL code list at:

http://www.aeaweb.org/jel/jel_class_system.php

Census Datasets: A list of the internal census datasets requested in the proposal. Please list the acronyms for the datasets from the links in Appendix A. The acronyms are in parenthesis after the dataset names in the tables.

Years of Data: The time span of the data you will use for your research project.

Primary RDC Location: The main RDC location from which the project will be administered.

Secondary RDC Locations: Any additional RDC locations researchers from the project will use regularly.

Benefits: The relevant benefit criteria the project will address. Please list the benefit numbers as taken from the benefit criteria listed in section I.C.2 above on page 6-7.

Research Team

List the full name, institutional affiliation, email address and phone number of all researchers affiliated with the project.

Name	Affiliation	Email/Phone	Type	SSS	US

Type: PI = Principal Investigator, CI = Co-investigator, RA = Research Assistant.

SSS: Y/N. Indicate if the researcher is expecting to undergo the Special Sworn Status background check to enter and use the RDC.

US: Y/N. Indicate if the researcher is a U.S. citizen.

Example Preliminary Proposal

Title: R&D Investment and Plant Productivity

Principal Investigator: Jane Smith

Date: 03/20/2012

Prerequisites Checklist

1. I have read these research proposal guidelines.
2. I have corresponded with an RDC administrator about my prospective project.
3. I understand that the predominant purpose of this project must benefit the Census Bureau data programs.
4. I understand that there are usually lab fees for using an RDC.
5. I understand that work is performed in a restricted access environment and only cleared results are allowed to leave the RDC.
6. I understand that the approval process may take a considerable amount of time, for example, if review by other agencies or data owners is required or if data availability issues exist.

I have performed each checklist item above: Please initial __JBS__

Duration (months): 36 months

Funding Source: National Science Foundation

Description: The project will investigate the effect of investment in research and innovation on the evolution of plant productivity over time. Benefits to Census include linking external patent data to explore the extent to which R&D activity is captured in the BRDIS and SIRD surveys.

JEL Code(s): O30, D24

Census Datasets: BRDIS, SIRD, ASM, CMF, LBD, SSEL

Years of Data: 1992-2009, and if available 2010-2012

Primary RDC Location: Boston

Secondary RDC Locations: N/A

Benefits: 5, 11

Research Team

Name	Affiliation	Email/Phone	Type	SSS	US
Jane B. Smith	Somerville University	smithj@somerville.edu 617-555-1234	PI	Y	Y
John F. Parker	Somerville University	parkerj@somerville.edu 857-555-1234	RA	Y	N

Attachment 2: Predominant Purpose Statement

Predominant Purpose Statement (PPS)

Draft, Date

Project Number, PI Last Name, "Title "

A. Criteria

The predominant purpose of this study is to increase the utility of Title 13, Chapter 5 data of the Census Bureau by meeting the criteria listed below and as described.

- Criterion 1 Evaluating concepts and practices underlying Census Bureau statistical data collection and dissemination practices, including consideration of continued relevance and appropriateness of past Census Bureau procedures to changing economic and social circumstances.*
- Criterion 2 Analyzing demographic and social or economic processes that affect Census Bureau programs, especially those that evaluate or hold promise of improving the quality of products issued by the Census Bureau.*
- Criterion 3 Developing means of increasing the utility of Census Bureau data for analyzing public programs, public policy, and/or demographic, economic, or social conditions.*
- Criterion 4 Conducting or facilitating census and survey data collection, processing or dissemination, including through activities such as administrative support, information technology support, program oversight, or auditing under appropriate legal authority.*
- Criterion 5 Understanding and/or improving the quality of data produced through a Title 13, Chapter 5 survey, census, or estimate.*
- Criterion 6 Leading to new or improved methodology to collect, measure, or tabulate a Title 13, Chapter 5 survey, census, or estimate.*
- Criterion 7 Enhancing the data collected in a Title 13, Chapter 5 survey or census. For example: improving imputations for non-response; developing links across time or entities for data gathered in censuses and surveys authorized by Title 13, Chapter 5.*

- Criterion 8 Identifying the limitations of, or improving, the underlying Business Register, Master Address File, and industrial and geographical classification schemes used to collect the data.*
- Criterion 9 Identifying shortcomings of current data, collection programs and/or documenting new data collection needs.*
- Criterion 10 Constructing, verifying, or improving the sampling frame for a census or survey authorized under Title 13, Chapter.*
- Criterion 11 Preparing estimates of population and characteristics of population as authorized under Title 13, Chapter 5.*
- Criterion 12 Developing a methodology for estimating non-response to a census or survey authorized under Title 13, Chapter 5.*
- Criterion 13 Developing statistical weights for a survey authorized under Title 13, Chapter 5.*

B. FTI Items

Only the following Federal Tax return Information (FTI) items from the following files will be needed by the researcher(s) to conduct this project.

C. Project Completion

The researcher(s) will provide the Census Bureau with annual progress reports on this multi-year project. After this project is completed, the researcher(s) will produce a CES Working Paper and related research papers for conference presentation and/or journal publication. They will also produce a CES technical memorandum summarizing the key findings pertinent to Census Bureau Title 13, Chapter 5 programs. In addition, the researcher(s) will produce a Post Project Certification (PPC) summarizing whether and how the criteria described in the project proposal's Predominant Purpose Statement (PPS), as well as any others, were or were not met.

Appendix A: RDC Data

CES Data Products: <http://www.census.gov/ces/dataproducts/index.html>

Economic Data: <http://www.census.gov/ces/dataproducts/economicdata.html>

Demographic Data: <http://www.census.gov/ces/dataproducts/demographicdata.html>

Longitudinal Employer-Household Dynamics (LEHD) Data:

<http://www.census.gov/ces/dataproducts/lehddata.html>

Agency for Health Care Research (AHRQ) Data:

http://meps.ahrq.gov/mepsweb/data_stats/onsite_datacenter.jsp

National Center for Healthcare Statistics (NCHS) Data:

<http://www.cdc.gov/rdc/>

<http://www.cdc.gov/rdc/B2AccessMod/ACs220.htm>

Appendix B: Useful Links

General

CES Website: <http://www.census.gov/ces/index.html>

RDC Locations and Contact Information: <http://www.census.gov/ces/main/contact.html>

IRS Criteria Document: http://www.census.gov/ces/pdf/IRS_Criteria_Document.pdf

CES Working Papers: <http://ideas.repec.org/s/cen/wpaper.html>

and older CES Working Papers: <http://www2.census.gov/ces/wp/>

Census Benefits

Writing Benefits Statements: http://www.census.gov/ces/pdf/Writing_Benefit_Statements.pdf

Potential RDC Methodological Topics:

<http://www.isr.umich.edu/src/mcrdc/Potential%20Research%20Data%20Center%20Methodological%20Topics.htm>

Data Collection, Analysis and Dissemination Process Topics (NSF-Census Solicitation):

http://www.nsf.gov/pubs/2010/nsf10621/nsf10621.htm#pgm_desc_txt

Census Research Topics: <http://www.census.gov/srd/researchtopics.pdf>

Abowd & Stinson: <http://www.census.gov/sipp/workpapr/abowd-stinson-ME-ss-20110707-sehsdworking.pdf>

Census Research Reports and Studies: <http://www.census.gov/srd/www/byyear.html>

Research Opportunities at the Census Bureau:

<http://www.census.gov/srd/research.pdf>

<http://www.census.gov/prod/2001pubs/dir-01rfp.pdf>

Census Strategic Plan: <http://www.census.gov/main/www/strategicplan/strategicplan.html>

Census Performance and Accountability Report:

http://www.census.gov/aboutus/pdf/USCensusBureauFY2010_PAR.pdf

http://www.census.gov/aboutus/pdf/USCensusBureauFY2009_PAR.pdf

Some Questionnaires

Firm and Establishment Census and Surveys

<http://bhs.econ.census.gov/bhs/index.html>

http://bhs.econ.census.gov/BHS/CEN_2007FORMS.html

<http://bhs.econ.census.gov/econhelp/resources/>

<http://www.census.gov/epcd/www/ec97form.html>

<http://www.census.gov/econ/overview/FORMSNDX.HTM>

Person and Household Census and Surveys

American Community Survey (ACS)

http://www.census.gov/acs/www/methodology/questionnaire_archive/

2000 Decennial Census <http://www.census.gov/dmd/www/2000quest.html>

1990 Decennial Census <http://www.census.gov/prod/1/90dec/cph4/appdxe.pdf>

Survey of Income and Program Participation (SIPP)

<http://www.census.gov/sipp/questionnaires.html>

Current Population Survey (CPS) <http://www.census.gov/cps/>

American Housing Survey (AHS) <http://www.huduser.org/portal/datasets/ahs.html>